Bayflex® XGT-2

Polyurethane (MDI)

Covestro - PUR

Message:

Bayflex XGT 2 is an elastomeric polyurethane system used in the reaction injection molding (RIM) process. The system is supplied as two liquid components: Component A is a modified diphenylmethane diisocyanate (MDI), and Component B is a polyether polyol system. The extended gel time of Bayflex XGT 2 gives equipment designers the flexibility to create large, complex parts that can be molded on existing injection machinery.
The resin's soft feel and the ability to tailor part density through the addition of barium sulfate make this product ideal for applications that require some level of sound absorption, such as floor coverings in heavy trucks or equipment. In addition, the material is soft enough to be used for producing seals, gaskets and wire harness type applications. As with any product, use of the Bayflex XGT 2 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Features	Noise reduction Soft		
Uses	Washer Seals Application in Automobile Field		
Forms	Liquid		
Processing Method	Reaction Injection Molding (RIM)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.03	g/cm³	ASTM D1622, ASTM D1505
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	69		ASTM D2240
Shaw A, 5 seconds	69		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D412
Transverse flow: Yield [1]	4.39	MPa	ASTM D412
Flow: Yield [2]	4.39	MPa	ASTM D412
Tensile Elongation [3]			ASTM D412
Transverse flow: Fracture	170	%	ASTM D412
Flow: Fracture	170	%	ASTM D412
Tear Strength [4]			ASTM D624
Transverse flow	14.1	kN/m	ASTM D624
Flow	14.5	kN/m	ASTM D624
Thermoset	**Nominal Value**		
Thermoset Components			
Component a	Mixing ratio by weight: 38		
Component B	Mixing ratio by weight: 100		

Additional Information

Part A
Type: Isocyanate
Specific Gravity @ 25°C: 1.21
Viscosity @25°C: 700 mPa-s
Flash Point PMCC: 213 °C
NCO: 22.6 to 23.1 wt%
Part B
Type: Polyol
Specific Gravity @ 25°C: 1.05
Viscosity @25°C: 1200 mPa-s
Flash Point PMCC: 114 °C
Water: 0.09 wt% max
Molding Parameters
Isocyanate Temperature: 38 to 43°C
Slurry Temperature: 38 to 43°C
Slurry or Polyol Nucleation: 5 to 10%
Maximum Shot Time: 9 sec
Typical Cure Time, 0.125 in: 3 min
Polyol Mixhead Pressure: 1900 to 2100 psi
Isocyanate Mixhead Pressure: 1900 to 2100 psi

Injection	Nominal Value	Unit
Mold Temperature	60.0 - 71.1	°C

NOTE	
1.	510 mm/min
2.	C mold, 510mm/min
3.	510 mm/min
4.	C mould

Recommended distributors for this material

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